**Davis Slough 2 (Site O)**

Seasonally Disconnected Floodplain Habitat Project: Year 1 (2021) Reconnaissance Report

Maddie Hicks, Jonathan Armstrong (Oregon State University)

Catherine Austin (Skagit River System Cooperative)

Site Map

* O1 – site outlet

Chart, diagram

Description automatically generated

Figure 1: Map of Davis Slough 2 with Relative Elevation Model (REM) showing elevation (ft) relative to the mainstem at base flows. REM developed by NSD from USGS 2016 LiDAR and provided by SRSC.

Temperature, Water Level, and Connectivity Trends

* No equipment installed at the site because majority of site on private property that have no permission to access and unlikely that site becomes disconnected
* It is unclear if and when the site becomes disconnected because not able to access outlet channel upstream of O1
* The site was never disconnected from the mainstem Skagit during site visits in the field season (April – October 2021)
* Given the high relative elevation of Carey’s Slough to the Skagit mainstem, site connectivity and water level is likely primarily driven by drainage through the outlet channel rather than Skagit flow inundating the site

6/7/2021

* Land reconnaissance from S. Skagit Hwy
* Site connected under S. Skagit Hwy bridge just upstream of O1 with substantial flow (Figure 2, 3)
* Unable to access further into site to assess connectivity in outlet channel because private property

A picture containing tree, outdoor, elephant, plant

Description automatically generated

Figure 2. Looking upstream from Davis Slough 2 outlet channel crossing under S. Skagit Hwy bridge

A picture containing grass, outdoor

Description automatically generated

Figure 3. Looking across channel at Davis Slough 2 connection under S. Skagit Hwy bridge

8/23/2021

* Land reconnaissance from S. Skagit Hwy
* Site connected under S. Skagit Hwy bridge just upstream of O1 with less flow than 6/7/2021 site visit but still flowing (Figure 4)
* Small beaver dam just upstream of S. Skagit Hwy crossing impeding flow but still appears fish passable (Figure 5)
* Unable to access further into site to assess connectivity in outlet channel because private property

A picture containing outdoor, plant, tree

Description automatically generated

Figure 4. Looking upstream at small beaver dam from Davis Slough 2 outlet channel crossing under S. Skagit Hwy bridge

A picture containing outdoor, plant, stone

Description automatically generated

Figure 5. Looking downstream from Davis Slough 2 outlet channel crossing under S. Skagit Hwy bridge